Intel® Server Product S2600WT Family

Full-featured systems with power-efficient spread-core design, robust memory, I/O, and compute capacity for intense datacenter applications

Look Inside.™

Expand your possibilities with 1U and 2U systems based on the Intel® Server Board S2600WT family, the premier server product family from Intel. This family features power-efficient spread-core design, massive 24 DIMM DDR4 memory—up to 3.0 TB, plus 80 PCIe Gen 3 lanes for the I/O and compute capacity needed to easily handle the intense needs of data analytics or enterprise applications.

Designed to support the performance and features of dual Intel® Xeon® processors E5-2600 v3, Intel® Xeon Phi™ coprocessors, Intel® TXT Technology, and Intel® Solid State Drives, systems are available pre-configured in 1U and 2U rack options, or choose chassis and boards separately for greater expansion and configuration flexibility.

Target Applications

Enterprise and Medium Business IT, Data Analytics, Storage and Cloud

INTEL SERVER PRODUCT S2600WT FAMILY

FEATURES	BENEFITS
Dual Intel® Xeon® processor E5-2600 v3 product family, 145W max TDP	Maximum computing capacity for highly demanding distributed processing and intensive application workloads
Spread core design	High energy, thermal, and power efficiency
24 DDR4 DIMM slots, up to 128 GB per DIMM, 3.0 TB total memory	Maximum memory capacity
NVDIMM support	
All 80 PCIe* Gen3 lanes available	Flexiblity with maximum I/O capacity
Storage I/O connector	Choose from a wide array of SAS 3 or SAS 2 Intel® Integrated RAID modules to configure flexible storage without using a standard PCIe* slot

Intel® Server System R1000WT and R2000WT Based on the Intel® Server Board S2600WT Family

Technical Information	
Description	Manage highly demanding application workloads with 1U and 2U rack systems based on the premier Intel® Server Board S2600WT family featuring power-efficient spread-core design, incredible 24 DDR4 DIMMs, and support for dual Intel® Xeon® processors E5-2600 v3
Form Factor	Board: custom (16.7" x 17") 1U rack: (17.25" wide x 28" long x 1.72") 2U rack: (17.25" wide x 28" long x 3.44")
Server Board included with System	S2600WT2: dual 1-Gb Ethernet ports based on Intel® Ethernet Controller I350 S2600WTT: dual 10-Gb Ethernet ports based on Intel® Ethernet Controller X-540
Processor Support, Max TDP	2x Intel® Xeon® processor E5-2600 v3 product family NOTE: Max CPU TDP supports 145W with configuration limits, see Technical Product Specifications
Total Slots	3 riser slots + I/O Module + Storage Module
Slot Types	2 PCI Express* x24 riser Super Socket (supporting x8, x16, and PCI-X riser card slot options) 1 PCI Express Mixed x8 + x4 slot riser socket (supporting x4, and x8 riser card slot options) PCI Express x8 Intel® I/O Expansion Module, PCI Express x8 Storage Module for an Intel®Integrated RAID Module
Memory Capacity	24 DIMM slots supporting ECC DDR4 RDIMM and LRDIMM with 1333MT/s, 1600MT/s, 1866MT/s, and 2133MT/s speeds 3072 GB max
Drive Options	1U rack: 8 x 2.5" (optional 4 x 2.5" NVMe drive support) or 4 x 3.5" hot-swap drives Optional 1 x 2.5" internal fixed drive in ODD bay with accessory 2U rack: 8/16/24 x2.5", or 8/12 x 3.5" hot-swap drives (includes support for 2.5" SSDs), 2 x 2.5" internal fixed drives, and 2 x 2.5" rear access drives Optional 4 x 2.5" NVMe (PCIe SSDs) available with accessory

1U RACK SYSTEMS

Dimensions (H x W x D)	1.72" x 17.25" x 28"
System Cooling	Redundant and hot-swap cooling fans
Power Supply	750 W AC Redundant PSU (Platinum Efficiency) Optional 750 W DC -48 V Redundant PSU (Gold Efficiency) NOTE: Second Power Supply sold seperately
Thermal Solution	Included
PCI Riser Slots	2 PCI Express* 3.0 x16 (FHHL) 1 PCI Express 3.0 x8 via Intel® I/O Expansion Module 1 PCI Express 3.0 x8 via connector for integrated SAS module
Other Components	Intel® Server Management Software Integrated BMC with IPMI 2.0 Optional optical disk drive
Warranty	3 year limited warranty, optional 2 year extended warranty available

SPECIFIC SKUS

R1208WT2GS	Intel® Server Board S2600WT2 8 x 2.5" hot-swap HDD, optional support for 1 x 2.5" fixed internal drive 750 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller I350 (1 GbE)
R1208WTTGS	Intel® Server Board S2600WTT 8 x 2.5" hot-swap HDD, optional support for 1 x 2.5" fixed internal drive 750 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller X540 (10 GbE)
R1304WT2GS	Intel® Server Board S2600WT2 4 x 3.5" hot-swap HDD, optional support for 1 x 2.5" fixed internal drive 750 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller I350 (1 GbE)
R1304WTTGS	Intel® Server Board S2600WTT 4 x 3.5" hot-swap HDD, optional support for 1 x 2.5" fixed internal drive 750 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller X540 (10 GbE)

Intel® Server System R1000WT and R2000WT Based on the Intel® Server Board S2600WT Family

2U RACK SYSTEMS

Dimensions (H x W x D)	3.44" x 17.25" x 28"
System Cooling	Redundant and hot-swap cooling fans
Power Supply	750 W AC Redundant PSU (Platinum Efficiency) 750 W DC -48 V Redundant PSU (Gold Efficiency) 1100W AC Redundant PSU (Platinum Efficiency) NOTE: Second Power Supply sold seperately
Thermal Solution	Included
PCI Riser Slots	3 Riser Options: Total of up to 6 PCI Express* 3.0 x8 or 2 PCI Express 3.0 x16, 2 PCI Express 3.0 x8, 1 PCI Express 3.0 x8 via Intel® I/O Expansion Module, 1 x PCI Express 3.0 x8 via connector for SAS module Option 1) 3 x PCI Express 3.0 x8 (2 FHFL, 1 FHHL) Option 2) 1 x PCI Express 3.0 x16 FHFL, 1 x PCI Express 3.0 x8 FHHL Option 3) 2 PCI-X 133 MHz FHFL, 1 x PCI Express 3.0 x8 FHHL Additional: 1 x PCI Express 3.0 x8 LP, 1 x PCI Express 2.0 x4 LP via 3rd riser
Other Components	Intel® Server Management Software Integrated BMC with IPMI 2.0 Optional optical disk drive
Warranty	3 year limited warranty, optional 2 year extended warranty available

SPECIFIC SKUS

R2208WT2YS	Intel® Server Board S2600WT2 8 x 2.5" hot-swap HDD, optional support for 2 x 2.5" SATA rear hot-swap drives, 2 x 2.5" fixed internal drives 1100 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller I350 (1 GbE) 6 PCI Express 3.0 x8 (4 FHFL, 2 FHHL), 1 riser PCI Express 3.0 x8 LP, PCIe 2.0 x4 LP
R2208WTTYC1	Intel® Server Board S2600WTT 8 x 2.5" hot-swap HDD, optional support for 2 x 2.5" SATA rear hot-swap drives, 2 x 2.5" fixed internal drives 2 x 1100 W AC redundant-capable PSU Integrated dual port Intel® Ethernet Contoller X540 (10 GbE) 2 PCI Express* 3.0 x 16, 2 PCI Express 3.0 x8, 1 PCI Express 3.0 x8 LP, PCIe 2.0 x4 LP
R2208WTTYS	Intel® Server Board S2600WTT 8 x 2.5" hot-swap HDD, optional support for 2 x 2.5" SATA rear hot-swap drives, 2 x 2.5" fixed internal drives 1100 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller X540 (10 GbE) 6 PCI Express 3.0 x8 (4 FHFL, 2 FHHL), 1 riser PCI Express 3.0 x8 LP, PCIe 2.0 x4 LP
R2224WTTYS	Intel® Server Board S2600WTT 24 x 2.5" hot-swap HDD, optional support for 2 x 2.5" SATA rear hot-swap drives, 2 x 2.5" fixed internal drives 1100 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller X540 (10 GbE) 6 PCI Express 3.0 x8 (4 FHFL, 2 FHHL)
R2308WTTYS	Intel® Server Board S2600WTT 8 x 3.5" hot-swap HDD, optional 2 x 2.5" SATA rear hot-swap drives, 2 x 2.5" fixed internal drives 1100 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller X540 (10 GbE) 6 PCI Express 3.0 x8 (4 FHFL, 2 FHHL), 1 riser PCI Express 3.0 x8 LP, PCIe 2.0 x4 LP
R2312WTTYS	Intel® Server Board S2600WTT 12 x 3.5" hot-swap HDD,optional 2 x 2.5" SATA rear hot-swap drives, 2 x 2.5" fixed internal drives 1100 W AC redundant-capable PSU; second PSU sold separately Integrated dual port Intel® Ethernet Contoller X540 (10 GbE) 6 PCI Express 3.0 x8 (4 FHFL, 2 FHHL)

For more information on Intel server solutions visit: intelserveredge.com
For more information on Intel® Server Products visit: intel.com/intelserversystems
For more information on Intel® RAID visit: intel.com/go/raid
For product specifications visit: ark.intel.com

Product does not include memory, processors, or hard drives. For compatibility information please refer to the configuration guide at www.intel.com/support

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS OTHERWISE AGREED IN WRITING BY INTEL, THE INTEL PRODUCTS ARE NOT DESIGNED NOR INTENDED FOR ANY APPLICATION IN WHICH THE FAILURE OF THE INTEL PRODUCT COULD CREATE A SITUATION WHERE PERSONAL INJURY OR DEATH MAY OCCUR.

Intel may make changes to specifications and product descriptions at any time, without notice. Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined". Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The information here is subject to change without notice. Do not finalize a design with this information.

The products described in this document may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order.

Intel, the Intel logo, Look Inside., the Look Inside. logo, Xeon and Xeon Phi are trademarks of Intel Corporation in the U.S. and/or other countries.

Copyright © 2014 Intel Corporation. All rights reserved.

331668-001US 1114/MM/MMOD/PDF